

2002 - 2003  
COURSE CATALOG



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## Letter from the Executive Director

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Dear Colleagues,

On behalf of the academy, I am pleased to present to you the inaugural issue of the Tennessee Fire Service and Codes Enforcement Academy Catalog. Each training opportunity listed in this comprehensive agenda contains a detailed description of the course content, number of credit hours, fee schedule, and registration prerequisites.

For maximum scheduling flexibility, please find specific course dates, times and locations on the foldout training schedule in the back folder pocket. This format allows for the periodic update of course offerings. As the year progresses, we anticipate the addition of training sessions and will continue to notify agencies throughout the coming months.

We hope this catalog will be a valuable resource toward achieving your all-important fire protection mission. Our goal is to equip every fire and codes professional who trains here with a quality of education that parallels their monumental responsibilities.

This facility represents our state's commitment to protecting the lives of firefighters, codes officials, and the citizens they have pledged to protect. We look forward to fulfilling your training needs and together, developing the academy's future contributions to our state's codes professionals and homeland security first responders.

Sincerely,

**W. Stuart Crine**

Executive Director





## History

The dream of state firefighters and codes enforcement officials took a step toward reality in 1996 with the passage of Public Chapter 937, creating the Tennessee Fire Service and Codes Enforcement Academy (TFACA) under the Department of Commerce and Insurance, State Fire Marshal's Office.

This premier educational facility, located approximately 15 miles south of Murfreesboro in northern Bedford County, offers the latest in training technology, state-of-the-art equipment and a full spectrum of educational courses.

The academy features dedicated structures for realistic fire and codes scenarios, a hands-on training center with specialized laboratories, modern classrooms with a supporting research library and a three-bay fire station containing accommodations for twenty-four recruit firefighters. Also included is a 104-room, single occupancy dorm; a 250-person dining facility; as well as maintenance and administration buildings.

The unique dual curriculum of fire service and codes enforcement subject matter is comprehensive, challenging and certification producing in accordance with applicable state and national standards and is presented to the students by a faculty of highly skilled, experienced professionals.

The TFACA staff is dedicated to meeting and exceeding your educational and training needs and we will strive to make your academy experience challenging and professionally rewarding.

## Mission

To plan, deliver and facilitate education and training that promotes professionalism and competency of fire service and codes enforcement personnel through a standardized statewide program, thereby enhancing the individual and collective ability to protect life and property of Tennessee citizens.

## Community Benefits

- ❖ Saving lives and property by providing education and training to the state's emergency response force.
- ❖ Enhancement of public safety and property value by ensuring a safe built environment.
- ❖ Decreasing the public risk protection cost by helping to lower ISO ratings.

## FIRE SERVICE COURSES

- 8. ♦Recruit/Firefighter I
- 8. ♦Basic/Live Firefighting
- 8. ♦Live Firefighting
- 8. Emergency Medical First Responder
- 8. Pump Operations I
- 8. Pump Operations II
- 9. Pump Operations III
- 9. Fire Apparatus Maintenance
- 9. Introduction to Fire Department Pumpers
- 9. Aerial Apparatus Operations
- 9. Self Contained Breathing Apparatus Maintenance & Repair
- 9. Incipient Fire Brigade
- 9. Interior Structural Fire Brigade
- 10. Advanced Exterior Fire Brigade
- 10. Fire Brigade Leader
- 10. Fire Instructor I
- 10. Leadership I: Strategies for Company Success
- 10. Leadership II: Strategies for Personal Success
- 11. Leadership III: Strategies for Supervisory Success
- 11. Incident Command System
- 11. Fire Officer I: Supervision
- 11. Fire Officer II: Strategy
- 11. Fire Officer III: Tactics
- 11. Fire Officer IV: Fireground Simulation
- 12. ISO Fire Department Grading Process
- 12. Health and Safety Officer
- 12. Fire Inspector I
- 12. Fire Inspector II
- 12. Fire Investigator
- 13. Fire and Life Safety Educator
- 13. ♦Smoke Diver
- 13. ♦High Angle Rescue
- 13. ♦Confined Space Rescue
- 13. TN Fire Incident Reporting Systems
- 13. Emergency Services Dispatching
- 14. TN Weekend at NFA
- 14. Smoky Mountain Weekend
- 14. Emergency Response to Terrorism: Basic Concepts
- 14. Initial Response to Terrorism for Company Officers

♦These courses require a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.





# Introduction to the Fire Service



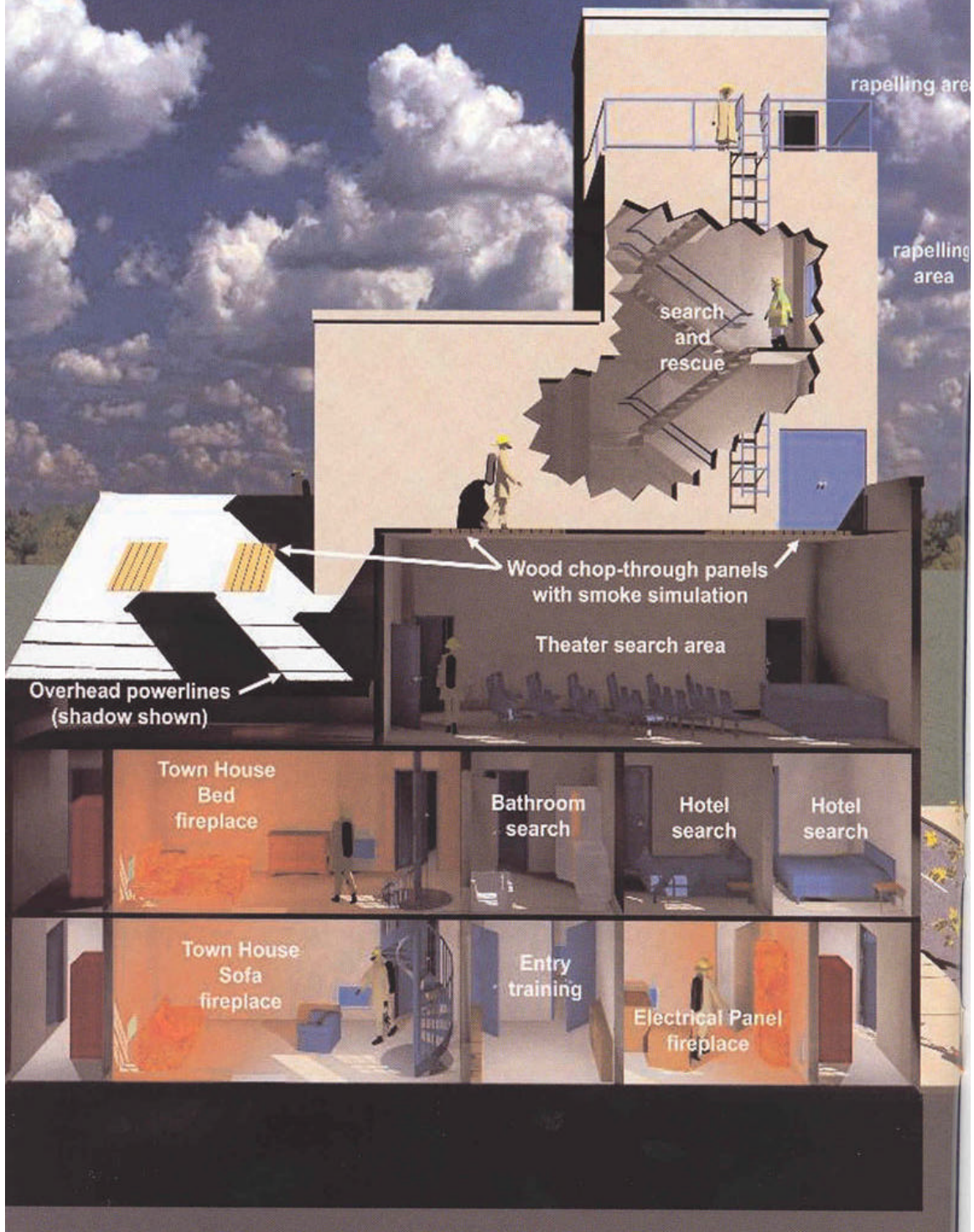
Honoring a steadfast tradition as a leader in fire service training since establishing the original state fire school in 1955, Tennessee is providing new and expanded training opportunities for the fire service. The new Tennessee Fire Service and Codes Enforcement Academy administers state-of-the-art comprehensive training programs for state fire service professionals both career and volunteer.

With approximately 23,000 firefighters across the state, 70% of whom are volunteers, it is imperative that training programs be designed to provide the maximum opportunity for all fire service personnel to participate. To accomplish this, the academy continues to deliver direct programming to local communities, as well as in-depth training at the campus. Regional field and on-campus training offers a wide range of courses, from basic firefighter to advanced officer training to specialized training. Programs include interactive practical training activities with "live" simulations and training props to enhance the skills of new students and experienced fire service veterans.

Through training, students learn and competently apply skills and techniques that enable them to protect the lives and property of Tennessee residents from the ravages of fire. We firmly believe this program will benefit not only the fire and emergency response personnel, but also those they are pledged to protect.



# FIRE SERVICE BURN TOWER





# T F A C A

## ❖ RECRUIT/FIREFIGHTER I - F100

This eight-week program is designed to take the student from pre-service entry level to Firefighter I and covers all aspects of firefighting based on NFPA 1001: *Fire Fighter Professional Qualifications*, with the exception of emergency medical training. The student will participate in classroom instruction, nighttime response exercises and practical skills training including "live" fire scenarios. During the last week, eligible students may take the Tennessee Commission on Firefighting Personnel and Standard Education certification exam for Firefighter I.

Course Hours: 300  
Course Fee: \$345.00  
Food/Lodging Fee: \$30.00/night

## ❖ BASIC/LIVE FIREFIGHTING - F102

This two-week program is designed to provide basic fire ground skills covered in selected sections of NFPA 1001: *Fire Fighter Professional Qualifications*, which meets the basic skill level for the student to participate in "live" fire training activities. The student will participate in classroom instruction and practical skills training including "live" fire scenarios. Volunteer and other firefighters who are unable to attend longer programs would benefit from this condensed course.

Course Hours: 80  
Course Fee: \$92.00  
Food/Lodging Fee: \$30.00/night



## ❖ LIVE FIREFIGHTING - F110

This course is designed to provide the student with practical application of the skills learned in FF100 - *Basic Firefighting*. This course incorporates a variety of practical training drills and scenarios including search and rescue, structural fire attack and exterior fires. "Live" fire training evolutions are included.

Course Hours: 22  
Course Fee: \$25.00  
Food/Lodging Fee: \$30.00/night  
Prerequisite:  
FF100 Basic Firefighting completed within past 12 months OR attended the following: F102 Basic/Live Firefighting, F100 Recruit/Firefighter I, F110 Live Firefighting, FF101 Live Firefighting completed within the past 24 months OR F150 Basic Firefighter Refresher, completed within past 12 months

## EMERGENCY MEDICAL FIRST RESPONDER - EM120

This course is designed to provide the knowledge and skills necessary to function as an emergency medical first responder. The course follows the United States Department of Transportation National Highway Traffic Safety Administration's curriculum for first responder and meets Tennessee's initial training requirements for medical first responder. Key areas include an introduction to the emergency medical system, legal and ethical issues, human anatomy, airway management, Cardio Pulmonary Resuscitation (CPR), handling trauma and medical emergencies, patient handling and basic Emergency Medical Services (EMS) operations. The course includes classroom and practical skills training.

Course Hours: 60  
Course Fee: \$195.00

## PUMP OPERATIONS I - FA101

This is the first course in a three-part series designed to instruct the student in the basic theory and operating principles of fire service pumping apparatus meeting selected requirements of NFPA 1002: *Fire Apparatus Driver/Operator Professional Qualifications*. Key areas of the course include pump operator responsibilities, types of pumps, pump operation, and pump and hose line pressure calculations.

Course Hours: 30  
Course Fee: \$98.00

## PUMP OPERATIONS II - FA102

This is the second course in a three-part series designed to provide the student with hands-on practical training in the operation of fire service pumping apparatus. The course builds on the knowledge gained in *Pump Operations I* and meets selected requirements of NFPA 1002: *Fire Apparatus Driver/Operator Professional Qualifications*. Key areas of the course include water supply, fire apparatus driving, fire ground scenarios, and fire pump maintenance.

Course Hours: 30  
Course Fee: \$98.00  
Prerequisite:  
FA101 Pump Operations I



❖ These courses require a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

# T F A C A

## PUMP OPERATIONS III - FA103

This is the third course in a three-part series designed to provide the student with hands-on practical training and evaluation in simulated fire ground pump operations meeting selected requirements of NFPA 1002: *Fire Apparatus Driver/Operator Professional Qualifications*. The course brings together the knowledge gained in FA101 & FA102 - *Pump Operations I & II*, and develops student competency in a broad range of pumping situations. Key areas of the course include review of levels I & II, support of sprinkler and standpipe systems, and fire ground problems.

Course Hours: 30  
Course Fee: \$98.00  
Prerequisite:  
FA101 Pump Operations I AND  
FA102 Pump Operations II

## FIRE APPARATUS MAINTENANCE (PUMPS) - FA105

This course is designed to provide the student hands-on practical training in the repair and maintenance of fire pumps and pump accessory equipment. All procedures taught can normally be done in the fire station with appropriate training and equipment. Students will work in groups on actual in-service fire apparatus to repair, test and return fire service pumps to service. We recommend FA101 *Pump Operations I* prior to taking this course.

Course Hours: 30  
Course Fee: \$98.00



## INTRODUCTION TO FIRE DEPARTMENT PUMPER - FF111

This course is designed to familiarize the student with the basic operation of fire department pumper apparatus. Course subjects include types of pumps, pump operations, pump accessories, maintenance, and simplified fire ground hydraulic calculations. Classroom activities and practical applications are also part of the course.

Course Hours: 15  
Course Fee: \$49.00

## AERIAL APPARATUS OPERATIONS - FA106

This course is designed to provide the previously trained fire pump operator with the additional knowledge and skills needed to safely operate fire service aerial apparatus. Key areas include types of aerial apparatus, aerial operation, strategy and tactics, and the maintenance and testing of aerials.

Course Hours: 30  
Course Fee: \$98.00  
Prerequisite:  
FA101 Pump Operations I OR  
FF111 Introduction to Fire  
Department Pumps

## SELF CONTAINED BREATHING APPARATUS MAINTENANCE AND REPAIR - FA121

This course is designed to familiarize the student with the basic maintenance and repair of self-contained breathing apparatus. The course includes the basic knowledge of several different brands of breathing apparatus, inspection of apparatus, field and shop maintenance activities and requirements, and refilling procedures and standards. Student activities include lecture, demonstration and hands-on exercises.

Course Hours: 16  
Course Fee: \$52.00

## INCIPIENT FIRE BRIGADE - FI110

This course provides training for industrial fire brigade members who are assigned to incipient level fire brigades as defined by OSHA 29 CFR 1910.156: *Fire Brigades*. This course meets selected portions of OSHA 29 CFR 1910.156: *Fire Brigades* and NFPA 600: *Industrial Fire Brigades* standard that relates to incipient fire brigades. Key areas of the course include incipient fire brigade organization and responsibilities, fire behavior, fire extinguishers, handling operations, and incipient level fire training exercises. This course requires students to meet OSHA standards as related to physical and medical standards for fire brigade personnel.

Course Hours: 16  
Course Fee: \$128.00

## INTERIOR STRUCTURAL FIRE BRIGADE - FI120

This course is designed to provide basic level training for industrial fire brigades that have identified structural firefighting responsibility within their emergency action plan. It meets selected portions of OSHA 29 CFR 1910.156: *Fire Brigades*, and the NFPA 600: *Industrial Fire Brigades* standard. Key areas of the course include fire brigade organization and responsibilities, fire behavior, firefighting equipment, fire attack and rescue. "Live" fire training scenarios are part of the program. This course requires students to meet OSHA standards as related to physical and medical standards for fire brigade personnel.

Course Hours: 32  
Course Fee: \$320.00





#### ADVANCED EXTERIOR FIRE BRIGADE - FI130

This course is designed to provide basic level training for industrial fire brigades that have identified exterior fire fighting responsibility within their emergency plan. This course meets selected portions of OSHA 29 CFR 1910.156: *Fire Brigades* and NFPA 600: *Industrial Fire Brigades* standard. Key areas of the course include fire brigade organization and responsibilities, fire behavior, fire fighting equipment, exterior fire attack and operations, and flammable liquid and gas firefighting. "Live" fire training scenarios will be utilized as part of the training process to enhance student skills. *This course requires students to meet OSHA standards as related to physical and medical standards for fire brigade personnel.*

Course Hours: 24  
Course Fee: \$240.00



#### FIRE BRIGADE LEADER - FI201

This course is designed to provide training in basic leadership and tactical skills for fire brigade personnel with leadership responsibilities and follows the guidelines referenced in OSHA 29 CFR 1910.156: *Fire Brigades*. Key areas of the course include fire brigade organization, leadership principles, strategy and tactics, and practical command scenarios. "Live" fire training scenarios are part of the training process to enhance student skills and demonstrate competency. *This course requires students to meet OSHA standards as related to physical and medical standards for fire brigade personnel.*

Course Hours: 24  
Course Fee: \$240.00



#### FIRE INSTRUCTOR I - FO101

This course is designed to teach fire department instructor job responsibilities including skills to analyze training needs of a department and develop a comprehensive training program. The student will learn to construct behavioral objectives, perform job breakdowns, develop instructor guide sheets and develop and use visual aids. Out-of-class work and practical teaching assignments are used to practice and demonstrate instructional skill development. The course meets selected requirements of NFPA 1041: *Fire Service Instructor Professional Qualifications*.

Course Hours: 40  
Course Fee: \$130.00

#### LEADERSHIP I: STRATEGIES FOR COMPANY SUCCESS - FF123

This course is designed to provide the student with leadership skills of mid-level managers, especially fire company officers. Major topics are decision-making, problem solving, brainstorming, meeting management, and understanding the relationship between resources and services provided by a fire company.

Course Hours: 15  
Course Fee: \$49.00



#### LEADERSHIP II: STRATEGIES FOR PERSONAL SUCCESS - FF124

Designed to provide the student with an understanding of leadership skills and tasks associated with management. This course covers ethics, role conflict, fostering creativity and innovation in fire service organizations, and abuse of power.

Course Hours: 15  
Course Fee: \$49.00  
Prerequisite:  
FF123 Leadership I

# T F A C A

## LEADERSHIP III: STRATEGIES FOR SUPERVISORY SUCCESS - FF125

This course is designed to provide the student with an understanding of basic leadership skills related to supervision of personnel. Major topics covered in the course are situational leadership, delegation, coaching, and use of discipline to correct improper employee behavior.

Course Hours: 15  
Course Fee: \$49.00  
Prerequisite:  
FF123 Leadership I AND  
FF124 Leadership II

## INCIDENT COMMAND SYSTEM - FF130

This course is designed to allow the student to demonstrate the need for an organized approach to managing emergency incidents, to identify laws and standards requiring this approach, to identify the elements of an effective system, and evaluate his/her department's capabilities. Major topics covered are the need for organized incident management, the laws and standards requiring the same components of such a system, the relationship between business management and incident management, the National Fire Academy's model of such a system, and other examples of incident management systems.

Course Hours: 15  
Course Fee: \$49.00



## FIRE OFFICER I: SUPERVISION - FO201

This course is directed toward fire service personnel currently serving as fire officers with fire ground responsibilities or those anticipating such responsibilities in the near future. The course identifies the fire officer's role as a supervisor, emphasizing planning, organizing, directing, coordinating and controlling. Subjects include discipline, motivation, public relations, training, and concentrates on human relationships: why people act and react the way they do. Class activities provide the student with the ability to develop and enhance problem-solving skills. The course meets selected requirements of NFPA 1021: Fire Officer Professional Qualifications.

Course Hours: 30  
Course Fee: \$98.00

## FIRE OFFICER II: STRATEGY - FO202

This course is designed to meet the needs of fire officers and crew leaders with management responsibilities of one or more companies in structural firefighting operations and is composed of two course modules. Module One is based on the National Fire Academy's - Managing Company Tactical Operations (MCTO): Preparation. Key areas covered in this section are preparation for response, decision making, and tactical operations. Module Two is based on the National Fire Academy's - MCTO: Decision Making. Key areas covered in this section are command sequences, developing an action plan, and introduction to the incident command system. The course meets selected requirements of NFPA 1021: Fire Officer Professional Qualifications.

Course Hours: 30  
Course Fee: \$98.00

## FIRE OFFICER III: TACTICS - FO203

This course is designed for fire officers and managers using incident command structure for fire and emergency operations to develop additional supervisory and management capabilities for structural fire operations. The course is composed of two course modules. Module One is based on the National Fire Academy's - Incident Command System (ICS) course. Key areas covered in this section are incident management systems, an overview of the structure and expandable nature of ICS, an understanding of command skills needed, and skill development through practical scenarios. Module Two is based on the National Fire Academy's - MCTO: Tactics. Key areas covered in this section are rescue, ventilation, fire attack, water supply, salvage, and overhaul. The course meets selected requirements of NFPA 1021: Fire Officer Professional Qualifications.

Course Hours: 30  
Course Fee: \$98.00  
Prerequisite:  
FO201 Fire Officer I - Supervision AND  
FO202 Fire Officer II - Strategy

## FIRE OFFICER IV: FIREGROUND SIMULATION - FO204

This course provides the student practical experience in fire attack pre-planning scenarios in positions of incident commander and company officer conducting fire ground operations on various fire situations using a fire attack simulator. This course meets selected requirements of NFPA 1021: Fire Officer Professional Qualifications.

Course Hours: 30  
Course Fee: \$98.00  
Prerequisite:  
FO203 Fire Officer III-Tactics



#### ISO FIRE DEPARTMENT GRADING PROCESS - FO210

The Fire Suppression Rating Schedule is the manual that the Insurance Services Offices (ISO) use in reviewing the firefighting capabilities of your community. The schedule measures the major elements of a community's fire protection system and develops a numerical grading called a Public Protection Classification, commonly called your ISO rating. This course will familiarize students with the Fire Suppression Rating Schedule, provide an understanding of major elements used by ISO and prepare the students to make strategic, operational and budgetary decisions to develop and implement a plan to improve the Public Protection Class for the community.

Course Hours: 24  
Course Fee: \$78.00

#### HEALTH AND SAFETY OFFICER - FF147

This course is designed to examine the health and safety officer's role in identifying, evaluating, and implementing policies and procedures that affect the safety and health of emergency responders. Major topics covered in this course are the role of the safety and health officer, the laws, standards and regulations, health maintenance, accident prevention investigation, and post-incident examination.

Course Hours: 18  
Course Fee: \$59.00



#### FIRE INSPECTOR I - CF100

This course provides fire inspectors with the knowledge and skills needed to examine buildings and structures for compliance with fire codes. Topics include private fire protection systems, building construction, life safety codes, and inspection/enforcement methods. We recommend CF100 Introduction to Codes Principles and Applications prior to taking this course.

Course Hours: 35  
Course Fee: \$240.00  
*This basic course will be reduced to \$40.00 to qualified individuals if funds are available.*

#### FIRE INSPECTOR II - CF101

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that minimum requirements are met. This is an advanced course dealing with complex construction and fire protection systems. Topics include protective systems and equipment, building fire safety, hazardous materials and special hazards.

Course Hours: 28  
Course Fee: \$190.00

#### FIRE INVESTIGATOR - FP120

This course is designed for emergency personnel who have responsibility for investigating fires that occur within their legal jurisdiction. Key areas of the course include fire behavior, fire cause and determination, evidence collection, interviewing techniques, and court procedures. The course includes classroom lecture, demonstrations, hands-on practical assignments and scenarios, and meets selected objectives of NFPA 1033: Professional Qualifications for Fire Investigators.

Course Hours: 40  
Course Fee: \$130.00



Classroom Building  
is 15,520 square foot  
building contains a computer  
lab, mock courtroom,  
lecture classroom, and  
library with private  
computer access ports.



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## FIRE AND LIFE SAFETY EDUCATOR - FPI30

This course is designed for those individuals who coordinate or assist their organization in public fire and life safety education. The course meets selected sections of NFPA 1035: *Professional Qualifications for Public Fire and Life Safety Educator*. Key areas include strategies for public fire and life safety education, community fire and injury prevention programs, resources, and development/implementation of public education programs.

Course Hours: 40  
Course Fee: \$130.00

## ♦HIGH ANGLE RESCUE - FRI10

This course is designed to teach the student the safe use of modern rope rescue techniques. Emphasis is placed on the safety of both the victim and the rescuer. Key areas of the course include knot craft, technical hardware and equipment, anchoring systems, lowering systems, rescue rappelling, and skill building through practical scenarios. This course requires the student to work at heights, as well as from rope, in rappel and rescue situations.

Course Hours: 40  
Course Fee: \$130.00

## TENNESSEE FIRE INCIDENT REPORTING SYSTEM (TFIRS) - FS100

This course provides the student with basic instruction regarding the philosophy of using TFIRS to document fire and other emergency incidents. Instruction enables students to successfully promote, support, and manage TFIRS data collection and entry. Course delivery includes standard lecture and hands-on computer data entry, retrieval, and analysis of results. No prior computer experience is required. Basic computer navigation and familiarization is part of the instruction.

Course Hours: 15  
Course Fee: \$49.00

### TO SAVE ONE LIFE, THEY WILL RISK THEIR OWN



## ♦SMOKE DIVER - FRI00

This course is designed to develop maximum firefighter capabilities while working in protective breathing apparatus. The full potential of the firefighter and associated equipment is achieved in physically and mentally stressful situations. The course is mastered through performance-based objectives that each firefighter must complete. Candidates must be in good physical condition.

Course Hours: 30  
Course Fee: \$98.00  
Prerequisite:  
FI00 Recruit Firefighter I OR  
FF101 Live Firefighting OR  
FI10 Live Firefighting



## ♦CONFINED SPACE RESCUE - FRI20

This course is designed to instruct emergency service personnel in safe rescue techniques for confined space emergencies. Emphasis is placed on the safety of both the victim and the rescuer. Key areas of the course include OSHA 1910.146 regulations, equipment familiarization, confined space entry procedures, rescue techniques, and skill building through practical scenarios. This course requires the student to work at elevations and in confined spaces, as well as from rope, in rappel and rescue situations. Students should be mentally and physically prepared to meet this challenge when registering for this course.

Course Hours: 40  
Course Fee: \$130.00



## EMERGENCY SERVICES DISPATCHER - FS120

This course is designed to teach the entry-level dispatcher/telecommunicator the necessary knowledge and skills to perform emergency dispatch duties and will familiarize the student with the basic concepts of alarm transmission and emergency dispatch procedures. The student will participate in both classroom activities and dispatch exercises utilizing simulators.

Course Hours: 40  
Course Fee: \$130.00

♦These courses require a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.



TENNESSEE WEEKEND AT THE  
NATIONAL FIRE ACADEMY -  
FS200

The State Weekend Program offered at the National Fire Academy (NFA) is a unique educational opportunity for fire and rescue personnel from Tennessee to attend selected two-day NFA courses as a group.

Priority for student enrollment is given to mid-level officers as the target audience identified by the NFA, but all applications are considered. The Tennessee Weekend is held each year at the NFA in Emmitsburg, Maryland and is sponsored by the following organizations: National Fire Academy, TN State Fire Marshal's Office, TN Fire Service and Codes Enforcement Academy, TN Fire Chief's Association, TN Firemen's Association, TN Advisory Committee on Arson, and TN Public Fire and Life Safety Educator's Association. A separate announcement is mailed to Tennessee fire departments and includes registration and application procedures.

Course Hours: 16

*Prerequisite:*

*Must be 18 years of age with three years of fire service experience*

SMOKY MOUNTAIN WEEKEND -  
FS201

The program is a unique educational opportunity for fire and rescue personnel to attend selected two-day courses held for one weekend. The courses offered include classroom-based and hands-on training classes. Smoky Mountain Weekend is conducted each spring in Sevier County, TN and is jointly sponsored by the TN Fire Service and Codes Enforcement Academy, the Sevier County Fire Chief's Association and the Sevier County Training Officers Association. A separate announcement is mailed to Tennessee fire departments and includes registration and application procedures.

Course Hours: 15

EMERGENCY RESPONSE TO  
TERRORISM: BASIC CONCEPTS -  
FF144

This course is designed to prepare first responder personnel to take the appropriate course of action at the scene of a potential terrorist incident. Topics include understanding and recognizing terrorism, defensive considerations, command and control issues, self-protective measures, scene security, notifications, and smooth transition from emergency to recovery to termination operations.

Course Hours: 15

Course Fee: \$25.00

*This course fee is currently covered through federal grant funding and is offered at no cost to the student.*

INITIAL RESPONSE TO  
TERRORISM FOR COMPANY  
OFFICERS - FF145

This course is designed to apply a four-step model to facilitate the dynamic process of managing and leading change within fire and emergency service organizations. Major topics covered are recognition of the signs of terrorism, scene security, incident command system, unusual circumstances related to terrorist activities, self-protection, and information search. We recommend FF144 *Initial Response to Terrorism: Basic Concepts* prior to taking this course.

Course Hours: 15

Course Fee: \$25.00

*This course fee is currently covered through federal grant funding and is offered at no cost to the student.*

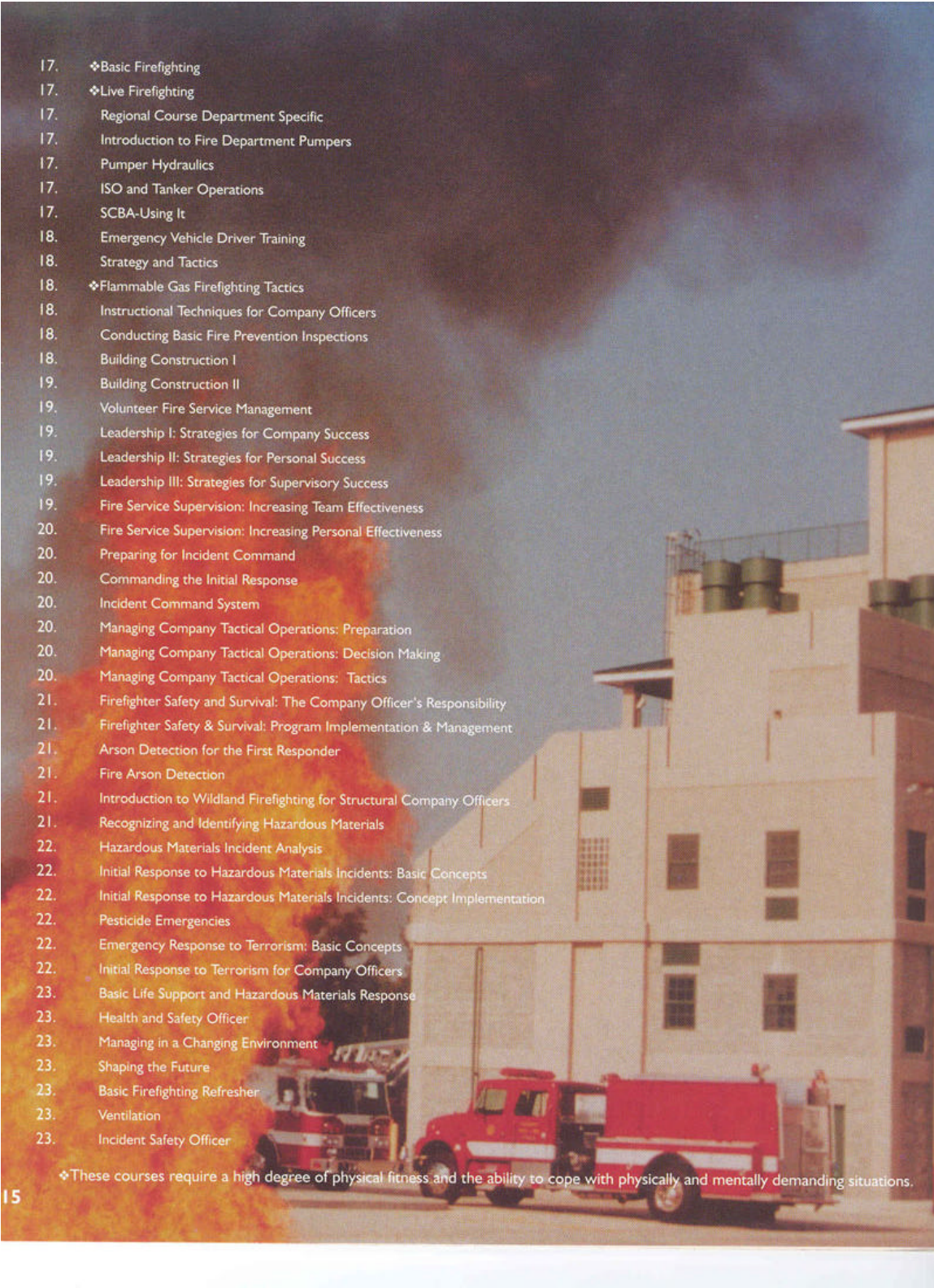


Fire Station & Two-Acre Lake

The 12,200 square foot building consists of 12 double occupancy sleeping rooms and one single room for an assigned officer, for a total housing capacity of 25 persons. Apparatus bays house up to six pieces of motorized fire fighting apparatus. The attached bay area contains space for Bedford County Emergency Ambulance Services and quarters for the crew.





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17. ♦Basic Firefighting
  17. ♦Live Firefighting
  17. Regional Course Department Specific
  17. Introduction to Fire Department Pumpers
  17. Pumper Hydraulics
  17. ISO and Tanker Operations
  17. SCBA-Using It
  18. Emergency Vehicle Driver Training
  18. Strategy and Tactics
  18. ♦Flammable Gas Firefighting Tactics
  18. Instructional Techniques for Company Officers
  18. Conducting Basic Fire Prevention Inspections
  18. Building Construction I
  19. Building Construction II
  19. Volunteer Fire Service Management
  19. Leadership I: Strategies for Company Success
  19. Leadership II: Strategies for Personal Success
  19. Leadership III: Strategies for Supervisory Success
  19. Fire Service Supervision: Increasing Team Effectiveness
  20. Fire Service Supervision: Increasing Personal Effectiveness
  20. Preparing for Incident Command
  20. Commanding the Initial Response
  20. Incident Command System
  20. Managing Company Tactical Operations: Preparation
  20. Managing Company Tactical Operations: Decision Making
  20. Managing Company Tactical Operations: Tactics
  21. Firefighter Safety and Survival: The Company Officer's Responsibility
  21. Firefighter Safety & Survival: Program Implementation & Management
  21. Arson Detection for the First Responder
  21. Fire Arson Detection
  21. Introduction to Wildland Firefighting for Structural Company Officers
  21. Recognizing and Identifying Hazardous Materials
  22. Hazardous Materials Incident Analysis
  22. Initial Response to Hazardous Materials Incidents: Basic Concepts
  22. Initial Response to Hazardous Materials Incidents: Concept Implementation
  22. Pesticide Emergencies
  22. Emergency Response to Terrorism: Basic Concepts
  22. Initial Response to Terrorism for Company Officers
  23. Basic Life Support and Hazardous Materials Response
  23. Health and Safety Officer
  23. Managing in a Changing Environment
  23. Shaping the Future
  23. Basic Firefighting Refresher
  23. Ventilation
  23. Incident Safety Officer

♦These courses require a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.



## Regional Fire Service Training

The Regional Fire Service Program is committed to the delivery of quality and accessible fire service training programs at the local fire department level. Individual fire departments and/or local area fire departments/organizations may request on-site delivery of the available programs listed on the following pages. To maximize the effectiveness of instructional delivery, a minimum of 15 students is required to conduct a course. Departments are encouraged to invite other area departments to participate with them in courses scheduled with the academy to increase the training opportunities for the departments in the area.

The Regional Fire Service Programs are offered on a contractual basis and are taught by both full-time and contract faculty. The regional courses consist of specialized training courses developed by the State Academy and/or the National Fire Academy. These courses provide training opportunities that range from basic firefighting and officer to incident command and management.

Departments or organizations interested in scheduling or hosting any of the listed courses should contact their Academy Regional Fire Instructor directly or call TFACA Regional Programs Department at 931.294.4111 or 1.800.747.8868.

# TFACA

## ❖BASIC FIREFIGHTING - FF100

This course is designed to provide basic fire ground skills necessary to operate and perform on the fire ground. The program is geared to volunteer firefighters and others who are unable to attend longer duration programs. The course covers selected sections of NFPA 1001: Fire Fighter Professional Qualifications, meeting the basic skill level for the student to participate in "live" fire fighting training activities. This course is a prerequisite for students wishing to attend the 22-hour FF101 - Live Firefighting course at the Academy.

Course Hours: 58  
Course Fee: \$67.00

## REGIONAL COURSE DEPARTMENT SPECIFIC - FF110

This category is utilized for subject areas that are not covered in the established courses. Academy Regional Instructors can provide a variety of fire service topics that can be tailored specific to the fire department's training needs. Fire departments interested in specialized training topics taught in the department should contact their TFACA Regional Instructor for further information on arranging a specific class.

Course Hours: Varies-dependant  
on number of students  
Course Fee:  
\$2.00 per hour, per student

## ISO AND TANKER OPERATIONS - FF113

This course ranges in length from 15 to 57 hours depending on the particular equipment and situation of the specific fire department. The course covers the Insurance Service Officer (ISO) grading schedule and requirements for tanker shuttle water supply, water supply calculations, basic tanker operations, and water shuttling. Classroom and practical hands-on training are incorporated in the course.

Course Hours: 15 to 57  
Course Fee:  
\$2.00 per hour, per student

## TRAINING TODAY TO SAVE TOMORROW

## ❖LIVE FIREFIGHTING (at TFACA) FF101

This course is designed to provide the student with a practical application of the skills learned in FF100 - Basic Firefighting, and is taught at the Academy campus. This course incorporates a variety of practical training drills and scenarios including search and rescue, structural fire attack and exterior fires. "Live" fire training evolutions are included as part of this program

Course Hours: 22  
Course Fee: \$25.00  
Food/Lodging Fee: \$30.00  
per night

Prerequisite:  
FF100 Basic Firefighting completed within past 12 months OR attended the following: F102 Basic/Live Firefighting, F100 Recruit/Firefighter I, F110 Live Firefighting, FF101 Live Firefighting completed within the past 24 months OR F150 Basic Firefighter Refresher, completed within past 12 months

## INTRODUCTION TO FIRE DEPARTMENT PUMPERS - FF111

This course is designed to familiarize the student with the basic operation of fire department pumper apparatus. Course subject areas include types of pumps, pump operation, pump accessories, maintenance, and simplified fire ground hydraulic calculations. Classroom activities and practical application are included as part of the course.

Course Hours: 15  
Course Fee: \$30.00

## PUMPER HYDRAULICS - FF112

This course is designed to familiarize the student with fire service hydraulic calculations for use in the operation of fire department pumpers. The course includes theory of fire service hydraulics, hydraulic formulas and calculations, and practical work exercises.

Course Hours: 8  
Course Fee: \$16.00

## SCBA - USING IT - FF114

This course is designed to provide the fire department personnel with the basic knowledge and skills to safely utilize fire service self-contained breathing apparatus (SCBA). The course subject areas include understanding hazardous atmospheres and the need for SCBA, types of SCBA, donning, basic use, return to service, and inspection/basic maintenance.

Course Hours: 21  
Course Fee: \$42.00



❖These courses require a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.



#### EMERGENCY VEHICLE DRIVER TRAINING - FF115

This course is designed to teach the student the basics of safe driving of emergency response vehicles. The course is taught with the Volunteer Fire Insurance Services (VFIS) Emergency Vehicle Driver Training package. The course includes classroom instruction along with practical driver training exercises using the fire department's apparatus. An appropriate driver training area and fire apparatus must be provided by the fire department for the practical exercises.

Course Hours: 8-overage  
Dependent on number of students.  
Course Fee:  
\$2.00 per hour, per student.

#### STRATEGY AND TACTICS - FF116

This program is designed to teach the student the basic principles of strategy and tactics used in fire service emergency operations. The course subject areas include size-up, developing strategy and tactical plans, fire ground command, resource deployment, and practical exercises.

Course Hours: 18  
Course Fee: \$36.00

#### ♦FLAMMABLE GAS FIREFIGHTING TACTICS - FF117

This course ranges in length from 8 to 12 hours depending on fire department's needs. The course is designed to teach the specialized strategies and tactics required to safely handle flammable gas emergencies. Key areas of the course include flammable gas characteristics and hazards, strategy and tactics for fire and non-fire events, fire attack, and "live" firefighting scenarios.

Course Hours: 8-12  
Dependent on number of students.  
Course Fee:  
\$2.00 per hour, per student.  
Prerequisite: F100 Recruit Firefighter I,  
F102 Basic/Live Firefighting, F110 Live  
Firefighting, FF101 Live Firefighting, OR  
F150 Basic Firefighting Refresher

#### INSTRUCTIONAL TECHNIQUES FOR COMPANY OFFICERS - FF118

This course is designed to provide the fire officer with the ability to present company-level training programs on prepared topics, using the four-step method of preparation, presentation, application, and testing. Major topics covered during the course include adults as learners, setting training objectives, using lesson plans, identifying resources, setting up classrooms, lectures, demonstrations, learning by doing, use of senses in retaining material, designing and using checklists, supervision of skills practice, coaching, guiding, evaluating, and testing.

Course Hours: 15  
Course Fee: \$30.00

#### CONDUCTING BASIC FIRE PREVENTION INSPECTIONS - FF119

This course is designed to provide the student with the basic knowledge necessary to conduct fire prevention inspections and to recognize potential hazards. Major topics include purpose of codes, authority and responsibility, reports and record keeping, preparing for and conducting the inspection, basic fire safety concepts, common heating and cooking hazards, automatic sprinkler systems, and protective signaling devices.

Course Hours: 16  
Course Fee: \$32.00

#### BUILDING CONSTRUCTION I - FF120

This course is designed to enable the student to cite key features of non-combustible or fire-resistive buildings that may impact emergency operations. Major topics covered in the course are key features of non-combustible or fire-resistive structures that affect emergency operations, and fire behaviors of steel and concrete. Additionally, students will study the effects of principles of fire spread, products of combustion, special problems with finishes and building elements, and the unique problems of conducting emergency operations in buildings under construction.

Course Hours: 15  
Course Fee: \$30.00



Maintenance Facility

Designed to provide facility storage, maintenance equipment and to house maintenance personnel.



♦These courses require a high degree of physical fitness and the ability to cope with physically and mentally demanding situations.

# T F A C A

## BUILDING CONSTRUCTION II - FF121

This course is designed to enable the student to recognize construction types, design, alteration consequences, materials used, and their influence on the building's reaction to fire in wood and ordinary construction structures. In a tactical situation, construction features and resultant potential hazards to firefighters are studied. Major topics covered in the course include construction type, alterations and design, and how materials influence a building's reaction to fire. Principles of "fire ground" reading of a building and the value of relevant advance information about buildings, building stability and resistance to fire, special hazards to firefighters, construction elements and the determination of likely paths of fire extension are also covered.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF120 Building Construction I

## VOLUNTEER FIRE SERVICE MANAGEMENT - FF122

Designed to provide volunteer fire department officers with an introduction to a practical management-training program that will allow them to apply management concepts and principles within their organization. This course covers handling problems by defining, analyzing, acting and looking for results, authority and persuasion, methods of influence, adapting between authority and persuasion, limitations of authority, role relationships, planning, and developing policies/procedures.

Course Hours: 15  
Course Fee: \$30.00



## LEADERSHIP I: STRATEGIES FOR COMPANY SUCCESS - FF123

This course is designed to provide the student with leadership skills of mid-level managers, especially fire company officers. Major topics are decision-making, problem solving, brainstorming, meeting management, and understanding the relationship between resources and services provided by a fire company.

Course Hours: 15  
Course Fee: \$30.00

## LEADERSHIP II: STRATEGIES FOR PERSONAL SUCCESS - FF124

Designed to provide the student with an understanding of leadership skills and tasks associated with management: multiple roles of managers, ethics, abuse of power, and personal creativity. This course covers ethics, fostering creativity and innovation in fire service organizations, role conflict, and power.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF123 Leadership I

## LEADERSHIP III: STRATEGIES FOR SUPERVISORY SUCCESS - FF125

This course is designed to provide the student with an understanding of basic leadership skills related to supervision of personnel. Major topics covered in the course are situational leadership, delegation, coaching, and use of discipline to correct improper employee behavior.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF124 Leadership II



## FIRE SERVICE SUPERVISION: INCREASING TEAM EFFECTIVENESS - FF126

This course is designed to introduce fire service managers and supervisors to basic skills and techniques that will improve their ability to relate to others in the work environment. Fire service managers will be expected to incorporate the principles of team building in their daily jobs. Topics covered in the course are team leaders' needs of fire service supervisors and program managers' interpersonal skills, motivation, interpersonal communications, counseling, group dynamics, and conflict resolution.

Course Hours: 15  
Course Fee: \$30.00

## FIRE SERVICE SUPERVISION: INCREASING PERSONAL EFFECTIVENESS - FF127

This course is designed to provide fire service managers and supervisors with basic supervisory skills and techniques that will improve their effectiveness as key leaders. Major topics covered in the course are basic skills and techniques that will assist the individual in improving his/her personal effectiveness, management culture, leadership, managerial style and personal performance, time management, stress management, and personal professional development planning.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF126 Fire Service Supervision: Increasing Team Effectiveness





**PREPARING FOR INCIDENT  
COMMAND - FF128**

This course is the first in the National Fire Academy's Incident Command series and is designed to prepare the fire officer for the fire ground decision-making role by stressing those factors that should be addressed before the situation occurs. Topics include fire behavior, safety concerns, fire loading/fire flow requirements, and pre-planning.

Course Hours: 15  
Course Fee: \$30.00

**COMMANDING THE INITIAL  
RESPONSE - FF129**

This course is the second in the National Fire Academy's Incident Command series and is designed to concentrate on developing and implementing an incident action plan. Emergency planning, strategy, goals and objectives, resource assignments, and accountability methods are discussed in defining the fire officer's role on the fire ground.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF128 Preparing for Incident Command

**INCIDENT COMMAND SYSTEM  
- FF130**

This course is designed to allow the student to demonstrate the need for an organized approach to managing emergency incidents, to identify laws and standards requiring this approach, to identify the elements of an effective system, and evaluate his/her department's capabilities. Major topics covered are the need for organized incident management, the laws and standards of such a system, the relationship between business management and incident management, the National Fire Academy's model of such a system, and other examples of incident management systems.

Course Hours: 15  
Course Fee: \$30.00

**MANAGING COMPANY  
TACTICAL OPERATIONS  
(MCTO): PREPARATION - FF131**

This course is designed to provide the new or prospective fire officer with the basic skills and knowledge necessary to manage one or more fire companies in structural fire fighting operations. Major topics covered are roles and responsibilities of the fire company officer, personal readiness, company readiness, departmental readiness, operational communications, building construction and fire behavior, and pre-incident preparation.

Course Hours: 15  
Course Fee: \$30.00

**MANAGING COMPANY  
TACTICAL OPERATIONS (MCTO)  
: DECISION  
MAKING - FF132**

This course is designed to provide the new or prospective fire officer with a framework for effective structural fire fighting decision-making and tactical organization. Major topics covered are the command sequence, size-up, developing an action plan, and introduction to incident command.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF131 Managing Company Tactical Operation (MCTO): Preparation

**MANAGING COMPANY  
TACTICAL OPERATIONS  
(MCTO): TACTICS - FF133**

This course is designed to provide senior or acting company officers with the knowledge and skills needed to accomplish assigned tactics at a structural fire emergency. Topics covered are introduction to managing company tactical operations, ventilation and rescue, fire confinement and extinguishment, water supply and exposure protection, overhaul and support activities, salvage, and private dwelling simulations.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF132 Managing Company Tactical Operations: Decision Making



# T F A C A

## FIREFIGHTER SAFETY & SURVIVAL: THE COMPANY OFFICER'S RESPONSIBILITY - FF134

This course is designed to provide the student with an appreciation of the seriousness of the firefighter injury and death problems and to provide an awareness of techniques for reducing injuries and deaths. Major topics covered in the course are an explanation of firefighter injuries and deaths, firefighter health and fitness, safety in training, station and response preparation safety, incident safety, post-incident safety, and survival tips.

Course Hours: 15  
Course Fee: \$30.00

## ARSON DETECTION FOR THE FIRST RESPONDER - FF136

This course is designed to enable the student to recognize the indicators of an intentionally set fire, preserve evidence, report the information to the appropriate office and know the role of a first responder as it relates to determining the cause and origin of the fire. Major topics include fire behavior, critical observations of the first responder, fire cause, scene security and evidence preservation, legal consideration, and reporting findings.

Course Hours: 15  
Course Fee: \$30.00

## INTRODUCTION TO WILDLAND FIREFIGHTING FOR STRUCTURAL COMPANY OFFICERS - FF138

This course is designed to identify safe and effective strategy and tactics to minimize harm presented by the wildland/urban fire interface. Topics covered in this course include sizing up the urban wildfire, triage of structures, safety in the urban interface, initial strategy and action, assessment of the action plan, tactics, public relations, and follow-up of the incident.

Course Hours: 15  
Course Fee: \$30.00

### HELPING YOU MEET YOUR TRAINING NEEDS



## FIREFIGHTER SAFETY & SURVIVAL: PROGRAM IMPLEMENTATION AND MANAGEMENT - FF135

This course is designed to provide the student with an understanding of general health/safety guidelines and practices needed by firefighters. Topics include safety as an attitude, developing a health and safety program, laws, standards and regulations, health maintenance and physical fitness, stress, emergency scene safety, and safety investigation.

Course Hours: 15  
Course Fee: \$30.00

Prerequisite:  
FF134 Firefighter Safety and Survival: The Company Officer's Responsibility



## FIRE ARSON DETECTION - FF137

This course is designed to educate company officers and senior firefighters in the basics of fire origin and cause, including interviewing of witnesses. Topics include defining arson, understanding the impact of arson, and developing the proper mind set for on-scene collection of information and listening. Other topics include initiating investigations, defining fire causes and explaining the fire tetrahedron, fuel loading, fire ignition and fire patterns.

Course Hours: 15  
Course Fee: \$30.00



## RECOGNIZING & IDENTIFYING HAZARDOUS MATERIALS - FF139

This course is designed to provide the student with an opportunity to gain an insight into the methods of identifying hazardous materials. Topics covered are the definition of hazardous materials, and recognizing signs, symptoms and clues for detecting the presence of hazardous materials.

Course Hours: 15  
Course Fee: \$30.00



#### HAZARDOUS MATERIALS INCIDENT ANALYSIS - FF140

This course is designed to provide the student with the knowledge required for effective analysis of a hazardous materials incident. Major topics covered in the course are the definition of hazardous materials, hazardous material emergencies and their outcomes, potentially dangerous assumptions, estimation of likely harm, event analysis, and characteristics and behavior of hazardous materials.

Course Hours: 15  
Course Fee: \$30.00

#### INITIAL RESPONSE TO HAZARDOUS MATERIALS INCIDENTS: BASIC CONCEPTS - FF141

This course is designed to provide the first responder with the basic concepts and techniques for appropriate behavior before, during and after the hazardous materials incident. Topics covered in the course are regulations and standards, personal safety, toxicology, site management and scene set-up, personal protective equipment, decontamination, and resources.

Course Hours: 15  
Course Fee: \$30.00

#### INITIAL RESPONSE TO HAZARDOUS MATERIALS INCIDENTS: CONCEPT IMPLEMENTATION - FF142

This course is designed to give the first responder an understanding of the basic steps of a systematic process for a safe and appropriate response to hazardous materials incidents. Topics include identifying the types, uses, sources of information needed to recognize and identify the hazard, identifying the basic options, requirements and limitations of the methods used to control, contain, or confine a hazardous materials incident. Major topics include estimating the potential course and harm of the incident, determining strategic goals, assessing tactical options, planning and implementing actions, examinations, and reviews.

Course Hours: 15  
Course Fee: \$30.00

Prerequisite:  
FF141 Initial Response to Hazardous  
Materials Incidents: Basic Concepts

#### PESTICIDE EMERGENCIES - FF143

This course is designed to provide local emergency responders with the knowledge to handle a pesticide fire or spill safely. Major topics covered in the course include different skills and tactics required for pesticide emergencies; importance of pesticide label definitions of pesticide, fungicide, insecticide, herbicide, and rodenticide. Additional topics include how pesticides enter the body and signs, symptoms, and treatment of pesticide poisoning; precautions, information resources, environmental pollution, and pre-emergency planning.

Course Hours: 15  
Course Fee: \$30.00

#### EMERGENCY RESPONSE TO TERRORISM: BASIC CONCEPTS - FF144

This course is designed to prepare first responder personnel to take the appropriate course of action at the scene of a potential terrorist incident. Topics include understanding and recognizing terrorism, defensive considerations, command and control issues, self-protective measures, scene security, notifications, and smooth transition from emergency to recovery to termination operations.

Course Hours: 15  
Course Fee: \$30.00

This course fee is currently covered through federal grant funding and is offered at no cost to the student.

#### INITIAL RESPONSE TO TERRORISM FOR COMPANY OFFICERS - FF145

This course is designed to provide first-on-the-scene supervisors with the necessary knowledge and skills needed to establish initial command of emergencies involving potential terrorism events. The course builds upon the existing knowledge and skills obtained in the *Emergency Response to Terrorism: Basic Concepts* course. Students must have a working knowledge of the Incident Command System. Major topics covered are recognition of the signs of terrorism, scene security, incident command system, unusual circumstances related to terrorist activities, self-protection, and information search. We Recommend FF144 Initial Response to Terrorism: Basic Concepts Course prior to taking this course.

Course Hours: 15  
Course Fee: \$30.00

This course fee is currently covered through federal grant funding and is offered at no cost to the student.



# T F A C A

## BASIC LIFE SUPPORT AND HAZARDOUS MATERIALS RESPONSE - FF146

This course is designed to provide an overview of critical concerns for emergency medical responders at hazardous materials incidents, including toxicological aspects associated with hazardous material incident response. Topics include safety issues for EMS-hazardous material response teams, managing contaminated victims, decontamination and treatment procedures at basic life support level, transportation and receiving facilities, and compliance/understanding of federal regulations regarding hazardous materials response.

Course Hours: 15  
Course Fee: \$30.00

## HEALTH AND SAFETY OFFICER - FF147

This course is designed to examine the health and safety officer's role in identifying, evaluating, and implementing policies and procedures that affect the safety and health of emergency responders. Major topics covered during this course are the role of the safety and health officer, standards and regulations, laws, and post-incident examination.

Course Hours: 18  
Course Fee: \$36.00

## MANAGING IN A CHANGING ENVIRONMENT - FF148

This course is designed to develop strategies for managing within a changing economic, social, cultural, political, and technological environment. Topics presented during the course include economic influences, trends and conditions, influential social factors, legal impacts on the function of the organization, political environment, trends, conditions and influences, technological changes and new technologies.

Course Hours: 15  
Course Fee: \$30.00

## SHAPING THE FUTURE - FF149

This course is designed to identify creative approaches to problems, create group problem-solving methods, quantify problems and solutions, and develop strategies to implement change. Topics include utilizing the environmental scanning process to identify existing or potential organizational problems, analyzing the effect of paradigms on creative problem identification, benchmarking, barriers to creativity, quantifying problems, cost-benefit, resistance to change, agents for change, and implementing change.

Course Hours: 15  
Course Fee: \$30.00

## BASIC FIREFIGHTING REFRESHER - FF150

This course is designed to provide refresher training in basic fire ground skills necessary to operate and perform on the fire ground. The course reviews selected sections of NFPA 1001: Fire Fighter Professional Qualifications, meeting the basic skills level for the student to participate in "live" firefighting training activities.

Course Hours: 15  
Course Fee: \$30.00  
Prerequisite:  
FF100 or F102 Basic Firefighting OR F110  
or FF101 Live Firefighting

## VENTILATION - FF151

This course is designed to educate firefighters and officers in basic and advanced ventilation techniques used in structural fire fighting operations. The course covers natural and mechanical ventilation methodology with emphasis on the latest techniques and concepts, including positive pressure ventilation. Lecture, demonstration and hands-on student activities are included as part of this program.

Course Hours: 15  
Course Fee: \$30.00

## INCIDENT SAFETY OFFICER - FF151

This course examines the safety officer's role in emergency response situations. A specific focus on operations within an Incident Command System (ICS) as a safety officer is the main focus. The student will be able to identify and analyze concerns as they relate to all hazard scene evaluations, and communicate recommended solutions to the commanding authority.

Course Hours: 15  
Course Fee: \$30.00









## CODES ENFORCEMENT COURSES

28. Introduction to Codes Principles and Applications
28. Introduction to Computers in Code Enforcement
28. Legal Aspects of Code Administration
28. Land Use and Property Standards
28. How to Prepare for a Certification Exam
28. Rules & Regs. Governing Contractors, Engineers and Architects
28. Introduction to Plans Review
28. Applications of Code Mathematics
29. Barrier Free Design Principles and Code Applications
29. Codes Enforcement Management
29. ISO Building Code Effective Grading Schedule
29. Significant Code Changes
29. Chief Code Official
29. Building Inspector I
29. Building Inspector II
29. Residential Building Principles and Code Applications
29. Commercial Building Principles and Code Applications
30. Housing Rehabilitation Principles and Code Applications
30. Existing Building Principles and Code Applications
30. Model Energy Code Principles and Code Applications
30. Standard Excavating and Grading Code
30. Building Construction (Combustibles and Non-Combustibles)
31. Properties of Wood Frame Construction
31. Structural Steel Inspection and Code Applications
31. Manufactured/Modular Home Principles and Code Applications
31. Non-Structural Plans Review
31. Special Occupancy Plans Review and Code Applications
31. Seismic Inspection and Plans Review
32. Means of Egress
32. Concrete and Masonry Principles and Code Applications
32. Performance Based Equivalency Evaluations
32. General Electrical Code Concepts
32. Residential Electrical Principles and Code Applications
32. Commercial Electrical Principles and Code Applications
33. Commercial Electrical Plans Review
33. Fire Prevention Principles and Code Applications - Fire Inspector I
33. Fire Prevention Principles and Code Applications - Fire Inspector II
33. Fire Safety Plans Review
33. Building Fire Protection Systems
33. Fire Proofing Methods and Protection of Rated Assemblies
34. Fire Sprinkler Design and Plans Review
34. National Fire Protection Association Life
34. Safety Code Principles
34. Storage Tanks for Combustibles - Principles & Code Applications
34. General Mechanical and Gas Code Concepts
34. Residential Mechanical and Gas Principles & Code Applications
34. Commercial Mechanical and Gas Principles & Code Applications
35. Commercial Mechanical and Gas Plans Review
35. General Plumbing Code Concepts
35. Residential Plumbing Principles and Code Applications
35. Commercial Plumbing Principles and Code Applications
35. Commercial Plumbing Plans Review





# Introduction to Codes Enforcement

The 2002 opening of the Tennessee Fire Service and Codes Enforcement Academy marks the dawn of a new era for codes enforcement professionals.

Approximately 3,500 individuals are committed to codes enforcement across the state. They have responsibilities ranging from administration to inspection, encompassing city, county or state adopted codes, ordinances or laws. State law mandates that building and fire inspectors be state certified and meet continuing educational requirements. The academy's training curriculum, which has approval from the State Fire Marshal's Office, has been designed to fulfill these requirements.

The academy campus features state-of-the-art classrooms and interactive lab facilities with an assortment of building material testing equipment. The codes prop house supports the training need with functioning HVAC, plumbing and electrical components to present an extensive variety of training scenarios.



# CODES ENFORCEMENT PROP HOUSE





# T F A C A

## INTRODUCTION TO CODES PRINCIPLES AND APPLICATIONS - C100

This course provides code enforcement officials with an overview and application of building and fire codes and how codes are interpreted. Topics include terminology, construction types, code familiarization, plans review, and enforcement methods.

Course Hours: 28  
Course Fee: \$190.00

## LAND USE AND PROPERTY STANDARDS - C103

This course covers the fundamentals of interpreting zoning and property standards. Topics include receiving and recording complaints, complaint investigations, identifying violations, issuing notices, evidence file development, public presentations and providing information to the public.

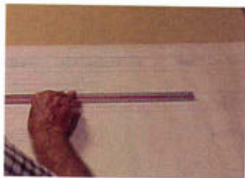
Course Hours: 7  
Course Fee: \$45.00

## INTRODUCTION TO PLANS REVIEW - C106

This course provides instruction in basic blueprint reading skills including terminology and symbols, site plans, floor plans, and elevation and cut details.

Course Hours: 35  
Course Fee: \$240.00

## MEETING AND EXCEEDING SAFETY TRAINING NEEDS



## INTRODUCTION TO COMPUTERS IN CODES ENFORCEMENT - C101

This course concentrates on computer applications in the code enforcement discipline and covers terminology, security, electronic mail, word processing, spread sheets, instruction on permit modules, inspection modules and code enforcement software, and storing, retrieving and compiling data.

Course Hours: 35  
Course Fee: \$240.00

## LEGAL ASPECTS OF CODE ADMINISTRATION - C102

This course provides code enforcement officials with a broad understanding of national and state laws affecting property and code compliance. Topics include administrative law, property law, liability, and negligence. We recommend C100 *Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00



## HOW TO PREPARE FOR A CERTIFICATION EXAM - C104

This course provides the student with general preparatory information for certification examinations. Topics include the use of reference books and materials, exam format, compiling a study guide and maximizing study time. This course will not teach the exam.

Course Hours: 7  
Course Fee: \$45.00

## RULES AND REGULATIONS GOVERNING CONTRACTORS, ENGINEERS AND ARCHITECTS - C105

This course covers the rules, regulations and state laws that govern contractors, engineers and architects. Topics include licensing requirements; projects that require licensed contractors, engineers or architects; and violations and penalties.

Course Hours: 7  
Course Fee: \$45.00



## APPLICATION OF CODE MATHEMATICS - C107

This course presents the fundamentals of code mathematics, math calculations and conversions. Building calculations include allowable height and area, square footage and cubic footage of areas that are rectangular and non-rectangular having flat and vaulted roofs or ceilings, occupant load, and egress requirements. Plumbing calculations include occupant loads, fixture requirements and fixture loads, and pipe sizing. Mechanical calculations include unit sizing, duct and register sizing, and allowable lengths of ducts. Electrical calculations include voltage drop, box fill and conduit fill. We recommend C100 *Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 7  
Course Fee: \$45.00

# TFACA

## BARRIER FREE DESIGN PRINCIPLES AND CODE APPLICATIONS - C108

This course concentrates on construction, installation, inspection requirements, techniques, and the procedures necessary to provide the knowledge needed to ensure that the minimum code requirements for barrier free design are met. Topics include accessibility requirements, fixture locations, and travel distances. We recommend C100 Introduction to Codes Principles and Applications prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

## CODES ENFORCEMENT MANAGEMENT - C109

This course provides code enforcement administrators with the organizational, regulatory and reporting aspects of management. Topics include administration and enforcement, planning, supervision, evaluation, and communications. We recommend C102 Introduction to Computers in Code Enforcement prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

## ISO BUILDING CODE EFFECTIVE GRADING SCHEDULE - C110

This course explains the process and benefits of participating in the Insurance Services Organization grading schedule as it pertains to building inspection departments.

Course Hours: 7  
Course Fee: \$45.00

## SIGNIFICANT CODE CHANGES - C111

This course covers the most significant code changes approved during the most recent code change cycle. It also explains the code change process and how to participate.

Course Hours: 7  
Course Fee: \$45.00

## CHIEF CODE OFFICIAL - C112

This course focuses on administrative management. Topics include working with elected officials and the media, record management, budget planning, staff evaluations, and Equal Employment Opportunities guidelines. We recommend C102 Introduction to Computers in Code Enforcement, C109 Codes Enforcement Management, CB101 Building Inspector II prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

## BUILDING INSPECTOR I - CB100

This course provides building inspectors with the knowledge and skills needed to examine buildings and structures for compliance with building codes. Topics include structural components, non-structural components and inspection/enforcement methods. We recommend C100 Introduction to Codes Principles and Applications prior to taking this course.

Course Hours: 35  
Course Fee: \$240.00  
This basic course will be reduced to \$40.00 to qualified individuals if funds are available. Contact TFACA for further information.

## BUILDING INSPECTOR II - CB101

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements for commercial construction are met. This is an intermediate course dealing with complex construction and fire protection requirements for single and multi-story buildings in excess of 60,000 total square feet. We recommend C100 Introduction to Codes Principles and Applications, CB100 Building Inspector I prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

## RESIDENTIAL BUILDING PRINCIPLES AND CODE APPLICATIONS - CB102

This course provides an understanding of simple residential construction, primarily wood frame construction. Topics include foundation walls, structural components, means of egress and fire separation requirements. We recommend C100 Introduction to Codes Principles and Applications prior to taking this course.

Course Hours: 35  
Course Fee: \$240.00

This basic course will be reduced to \$40.00 to qualified individuals if funds are available. Contact TFACA for further information.

## COMMERCIAL BUILDING PRINCIPLES AND CODE APPLICATIONS - CB103

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements for commercial construction are met. This is an advanced course dealing with complex construction and fire protection requirements of single and multi-story buildings of unlimited height and area requirements. We recommend CB100 Introduction to Codes Principles and Applications prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00





#### HOUSING REHABILITATION PRINCIPLES AND CODE APPLICATIONS - CB104

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge to ensure that rehabilitated residential structures comply with the minimum requirements. Topics include the rehabilitation process, construction materials, fundamentals of construction, and fundamentals of equipment systems. We recommend *C100 Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

#### EXISTING BUILDING PRINCIPLES AND CODE APPLICATIONS - CB105

This course provides the basic knowledge and skills to guide the inspection of existing buildings and structures. Topics include inspection practices and procedures, fire prevention application, and building maintenance applications. We recommend *C100 Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00

#### MODEL ENERGY CODE PRINCIPLES AND CODE APPLICATIONS - CB106

This is a comprehensive course which concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements of the model energy code are met. Topics include buildings that must comply, forms and checklists, and the compliance process. We recommend *C100 Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00

#### NON-STRUCTURAL PLANS REVIEW - CB112

This course concentrates on fire and life safety design and construction requirements to ensure that the minimum requirements for occupancy classification, building parameters, construction type, separation requirements, means of egress and fire protection requirements are met. This course focuses primarily on commercial construction. We recommend *C100 Introduction to Codes Principles and Applications*, *C106 Introduction to Plans Review* OR *CB100 Building Inspector I* prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00

#### STANDARD EXCAVATING AND GRADING CODE - CB107

This course covers excavation and grading requirements. Topics include terminology, cuts, fills, slopes, materials, drainage, terracing and erosion controls. We recommend *C100 Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 7  
Course Fee: \$45.00

#### BUILDING CONSTRUCTION COMBUSTIBLE AND NON- COMBUSTIBLE - CB108

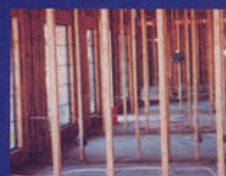
This course provides an understanding of combustible and non-combustible construction materials. Non-combustible materials include steel, concrete, and masonry products. Combustible materials include wood, laminated veneer lumber, paper, and plastics. Other topics include interior wall coverings and fire retardant materials. We recommend *C100 Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00



Codes Prop House

Two-story residential building with examples of commonly encountered code compliance issues incorporated within the building's design and construction.



# T F A C A

## PROPERTIES OF WOOD FRAME CONSTRUCTION - CB109

This course concentrates on principles and procedures for determining the design values for wood frame construction. Topics include the appropriate method for using basic code-referenced design documents to determine correct design values for floor, wall and roof framing components. Construction practices and inspection requirements are also discussed. We recommend CB102 Residential Building Principles and Code Applications, OR CB108 Building Construction Combustibles and Non-Combustibles prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00

## MANUFACTURED / MODULAR HOME PRINCIPLES AND CODE APPLICATIONS - CB111

This course concentrates on construction, installation, inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements for manufactured and modular homes are met. Topics include terminology, factory standards and foundation/anchoring/permit requirements. We recommend C100 Introduction to Codes Principles and Applications OR CB102 Residential Building Principles and Code Applications prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00

## SPECIAL OCCUPANCY PLANS REVIEW AND CODE APPLICATIONS - CB113

This course concentrates on construction, installation, and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure the minimum requirements are met for special occupancies. Topics include terminology, egress requirements, tenant separation requirements and fire protection requirements. We recommend CB101 Building Inspector I, CB112 Non-Structural Plans Review prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00

## CODES OFFICIALS: SAVING LIVES, ONE BUILDING AT A TIME



### STRUCTURAL STEEL INSPECTION AND CODE APPLICATIONS - CB110

This course concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements for the installation of structural steel are met. Topics include terminology, steel shapes and sizes, and identification of welds, cables and bolts. We recommend C100 Introduction to Codes Principles and Applications, CB100 Building Inspector I, OR CB103 Commercial Building Principles and Code Applications prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00



### NON-STRUCTURAL PLANS REVIEW - CB112

This course concentrates on fire and life safety design and construction requirements to ensure that the minimum requirements for occupancy classification, building parameters, construction type, separation requirements, means of egress and fire protection requirements are met. This course focuses primarily on commercial construction. We recommend C100 Introduction to Codes Principles and Applications, C106 Introduction to Plans Review OR CB100 Building Inspector I prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00



### SEISMIC INSPECTION AND PLANS REVIEW - CB114

This is a comprehensive course which concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge to ensure that the minimum requirements for seismic standards are met. Topics include terminology, building code seismic requirements, seismic maps and seismic anchoring requirements. We recommend CB102 Building Inspector II OR CB112 Non-Structural Plans Review prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00



#### MEANS OF EGRESS - CB115

This course concentrates on construction, inspection requirements, techniques and procedures and the technical knowledge needed to ensure minimum requirements of egress related elements of building construction are met. A review of the applicable requirements of residential and commercial construction is included. We recommend *CB100 Building Inspector I*, *CB112 Non-Structural Plans Review* prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00

#### CONCRETE AND MASONRY PRINCIPLES AND CODE APPLICATIONS - CB116

This course concentrates on construction and inspection requirements, techniques and procedures and the technical knowledge needed to ensure minimum requirements for the installation of concrete or masonry components are met. Additional concentration on soil properties, special soil conditions, footings, foundation walls, and retaining walls of both residential and commercial applications is also included. We recommend *CB100 Building Inspector I*, *CB102 Residential Building Principles and Codes Applications* prior to taking this course.

Course Hours: 7  
Course Fee: \$45.00

#### PERFORMANCE BASED EQUIVALENCY EVALUATIONS - CB117

This course provides building plan reviewers with the knowledge of construction material standards and substitutes for those standards. Topics include alternative construction materials and properties, equivalency criteria and applications, and procedures for approving substitutes. We recommend *CB100 Building Inspector I* prior to taking this course.

Course Hours: 7  
Course Fee: \$45.00

#### GENERAL ELECTRICAL CODE CONCEPTS - CE100

This course provides the student with a general overview of the National Electrical Code (NEC). It covers the basic concepts for construction, installation, inspection requirements, techniques and procedures. Code requirements related to planning and construction for residential and commercial construction are discussed. We recommend *CE100 Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

#### RESIDENTIAL ELECTRICAL PRINCIPLES AND CODE APPLICATIONS - CE101

This course concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that compliance with the minimum national electrical code requirements related to residential planning and construction are met. We recommend *CE100 Introduction to Codes Principles and Applications* AND *CE100 General Electrical Code Concepts* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

#### COMMERCIAL ELECTRICAL PRINCIPLES AND CODE APPLICATIONS - CE102

This course focuses on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that compliance with the minimum national electrical code requirements related to planning and construction for commercial construction are met. We recommend *CE100 Introduction to Codes Principles and Applications* AND *CE100 General Electrical Code Concepts* prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00



Training Center

Consists of five individual locations containing a codes and arson laboratory; infirmary and offices; complete training bay for fire vehicles and equipment, and an indoor drafting pit which enables annual certification of fire fighting apparatus.



# TFACA

## COMMERCIAL ELECTRICAL PLANS REVIEW - CE103

This course concentrates on design and construction requirements to ensure that the minimum requirements for materials, wire size, conduit requirements, voltage drop, panel size, and penetrations of rated assemblies are met. The course deals primarily with electrical applications in commercial buildings. We recommend C106 Introduction to Plans Review AND CE102 Commercial Electrical Principles and Code Applications prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00



## FIRE PREVENTION PRINCIPLES AND CODE APPLICATIONS FIRE INSPECTOR I - CF100

This course provides fire inspectors with the knowledge and skills to examine buildings and structures for compliance with fire codes. Topics include private fire protection systems, building construction, life safety codes, and inspection/enforcement methods. We recommend C100 Introduction to Codes Principles and Applications prior to taking this course.

Course Hours: 35  
Course Fee: \$240.00

This basic course will be reduced to \$40.00 to qualified individuals if funds are available. Contact TFACA for further information.

## FIRE PREVENTION PRINCIPLES AND CODE APPLICATIONS FIRE INSPECTOR II - CF101

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements are met. This is an advanced course dealing with complex construction and fire protection systems. Topics include protective systems and equipment, building fire safety, hazardous materials and special hazards. We recommend C100 Introduction to Codes Principles and Applications, CF100 Fire Prevention Principles and Code Applications Fire Inspector prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00



## FIRE SAFETY PLANS REVIEW - CF102

This is a comprehensive course which concentrates on design and construction, requirements to ensure that the minimum requirements for fire safety are met. Topics include terminology, site requirements, hazardous materials, protection systems, special hazards and National Fire Protection Association (NFPA) standards. We recommend C100 Introduction to Codes Principles and Applications, CF100 Fire Prevention Principles and Code Applications Fire Inspector I, OR CF101 Fire Prevention Principles and Code Applications Fire Inspector II prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00

## BUILDING FIRE PROTECTION SYSTEMS - CF103

This is a comprehensive course which concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure minimum standards for building fire protection systems are met. Topics include terminology, standpipes, types of sprinkler systems, types of alarm systems, system tests, water pressure and hydrants, and required inspections. We recommend CF100 Fire Prevention Principles and Codes Applications - Fire Inspector I prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00



## FIRE PROOFING METHODS AND PROTECTION OF RATED ASSEMBLIES - CF104

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure minimum requirements related to fire proofing and protection of rated assemblies are met. Applicable residential and commercial construction requirements are discussed. We recommend CF100 Fire Prevention Principles and Codes Applications - Fire Inspector I prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00



#### FIRE SPRINKLER DESIGN AND PLANS REVIEW - CF105

This course provides inspectors with the knowledge and skills necessary to review the design and operation of fire sprinkler systems. Topics include types of sprinkler systems, standpipe systems, water supply and pressure, installation and maintenance requirements, and inspection. We recommend *CF100 Fire Prevention Principles and Codes Applications - Fire Inspector I* OR *CF103 Building Fire Protection Systems* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

#### NATIONAL FIRE PROTECTION ASSOCIATION LIFE SAFETY CODE PRINCIPLES - CF106

This is a comprehensive course which concentrates on construction, installation and inspection requirements, techniques and procedures and the technical knowledge needed to ensure that the minimum requirements are met. Topics include terminology, plans review, building construction, egress requirements, occupancy classifications, and building protection systems. We recommend *CF100 Introduction to Codes Principles and Applications* prior to taking this course.

Course Hours: 35  
Course Fee: \$240.00

#### STORAGE TANKS FOR COMBUSTIBLES PRINCIPLES AND CODE APPLICATIONS - CF107

This course concentrates on construction, installation and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure minimum requirements are met. Topics include terminology, site requirements, materials, above and below ground tanks, properties of combustible materials and containment requirements. We recommend *CF100 Fire Prevention Principles and Codes Applications - Fire Inspector I* prior to taking this course.

Course Hours: 14  
Course Fee: \$95.00

#### GENERAL MECHANICAL AND GAS CODE CONCEPTS - CM100

This course gives the student a general overview of the Standard Mechanical Code and covers the basic concepts for construction, installation and inspection requirements, techniques, and procedures. Code requirements related to planning and construction for residential and commercial systems are discussed. We recommend *CF100 Introduction to Codes Principles and Codes Applications* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

#### RESIDENTIAL MECHANICAL AND GAS PRINCIPLES AND CODE APPLICATIONS - CM101

This course focuses on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure the minimum requirements for residential mechanical installations are met. Fundamentals of heat and air conditioning systems, terminology, and performing various calculations is also covered. We recommend *CF100 Introduction to Codes Principles and Codes Applications* prior to taking this course.

Course Hours: 21  
Course Fee: \$45.00

#### COMMERCIAL MECHANICAL AND GAS PRINCIPLES AND CODE APPLICATIONS - CM102

This course concentrates on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements for commercial mechanical installations are met. This course deals with combustion air venting, materials and fittings, duct and venting systems, and fire protection requirements. We recommend *CF100 Introduction to Codes Principles and Codes Applications* OR *CM100 General Mechanical and Gas Code Concepts* prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00



DORMITORY & REGISTRATION BUILDINGS

Accommodations for 104 individuals in single occupancy rooms. Every two rooms share a joined restroom, while handicapped rooms have private facilities. The Registration Building contains a fitness center, activity room and laundry room, as well as TFACA security personnel offices.



# T F A C A

## COMMERCIAL MECHANICAL AND GAS PLANS REVIEW - CM103

This course concentrates on design and construction requirements to ensure that the minimum requirements for materials, duct size, unit size, gas pipe size and penetrations of rated assemblies are met. This course deals primarily with mechanical and gas applications in commercial structures. We recommend *C100 Introduction to Codes Principles and Codes Applications*, *C106 Introduction to Plans Review*, AND *CM102 Commercial Mechanical and Gas Principles and Code Applications* prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00

## RESIDENTIAL PLUMBING PRINCIPLES AND CODE APPLICATIONS - CP101

This course focuses on construction and inspection requirements, techniques and procedures, and the technical knowledge needed to ensure the minimum requirements for residential plumbing are met. This course deals with the use of the code, basic plumbing terminology, and how to perform various plumbing calculations. We recommend *C100 Introduction to Codes Principles and Codes Applications* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00

## COMMERCIAL PLUMBING PLANS REVIEW - CP103

This is a comprehensive course that concentrates on design and construction requirements to ensure that the minimum requirements for materials, water pressure, pipe sizing, and protection of penetrations in rated assemblies are met. This course focuses primarily on plumbing applications in commercial buildings. We recommend *C100 Introduction to Codes Principles and Codes Applications*, *C106 Introduction to Plans Review*, *CP102 Commercial Plumbing Principles and Code Applications* prior to taking this course.

Course Hours: 28  
Course Fee: \$190.00

## BUILDING PUBLIC SAFETY FROM THE GROUND UP



### GENERAL PLUMBING CODE CONCEPTS - CP100

This course provides the student a general overview of the plumbing code. It covers the basic concepts for construction, techniques and procedures, installation and inspection requirements. Code requirements related to planning and construction for residential and commercial construction are also discussed. We recommend *100 Introduction to Codes Principles and Codes Applications* prior to taking this course.

Course Hours: 21  
Course Fee: \$145.00



### COMMERCIAL PLUMBING PRINCIPLES AND CODE APPLICATIONS - CP102

This course concentrates on construction, inspection requirements, techniques and procedures, and the technical knowledge needed to ensure that the minimum requirements for commercial plumbing are met. This course pertains to general regulations, materials, required fixtures, drainage and venting principles, and storm drain requirements. We recommend *C100 Introduction to Codes Principles and Codes Applications* OR *CP101 General Plumbing Code Concepts* prior to taking this course.

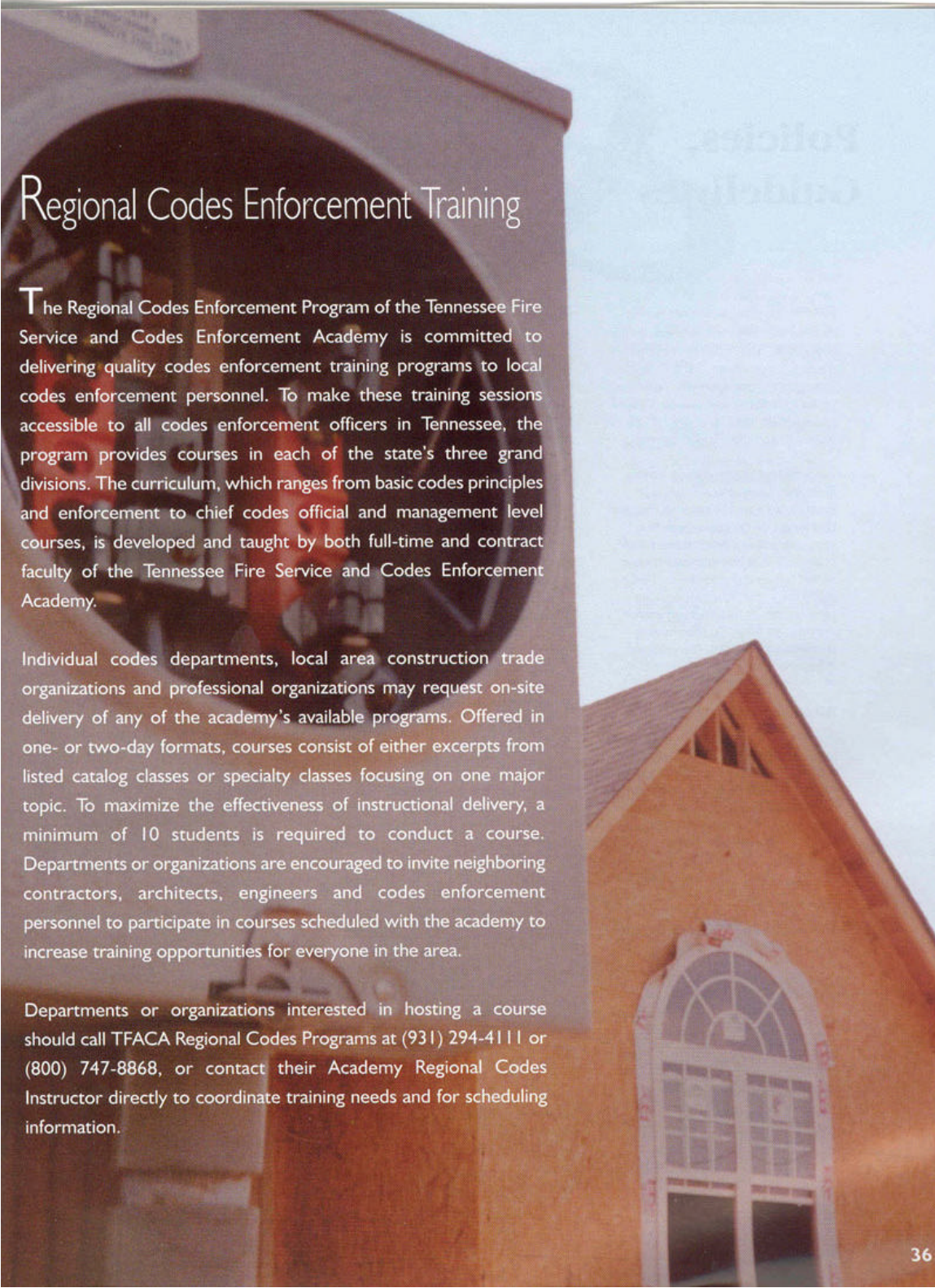
Course Hours: 28  
Course Fee: \$190.00



### INTERNATIONAL CODE COUNCIL CERTIFICATION PROGRAM FOR CODE PROFESSIONALS

All efforts have been made to provide the courses prior to ICC certification exam dates. The student should be aware that instruction in these courses is designed to teach an understanding of the code, proper use of the code-book and how to administer the code. The courses are not designed to teach the certification exam. Individuals are responsible for contacting ICC for all certification examination applications and exam fees. For more information, please contact ICC Exam Services at (205) 591-1853.





## Regional Codes Enforcement Training

The Regional Codes Enforcement Program of the Tennessee Fire Service and Codes Enforcement Academy is committed to delivering quality codes enforcement training programs to local codes enforcement personnel. To make these training sessions accessible to all codes enforcement officers in Tennessee, the program provides courses in each of the state's three grand divisions. The curriculum, which ranges from basic codes principles and enforcement to chief codes official and management level courses, is developed and taught by both full-time and contract faculty of the Tennessee Fire Service and Codes Enforcement Academy.

Individual codes departments, local area construction trade organizations and professional organizations may request on-site delivery of any of the academy's available programs. Offered in one- or two-day formats, courses consist of either excerpts from listed catalog classes or specialty classes focusing on one major topic. To maximize the effectiveness of instructional delivery, a minimum of 10 students is required to conduct a course. Departments or organizations are encouraged to invite neighboring contractors, architects, engineers and codes enforcement personnel to participate in courses scheduled with the academy to increase training opportunities for everyone in the area.

Departments or organizations interested in hosting a course should call TFACA Regional Codes Programs at (931) 294-4111 or (800) 747-8868, or contact their Academy Regional Codes Instructor directly to coordinate training needs and for scheduling information.

# Policies, Guidelines & Program Fees

## ELIGIBILITY

Any person with involvement in fire prevention and control, emergency medical services, fire related emergency management activities, codes enforcement, or allied professionals over the age of 18 is eligible to apply for TFACA courses.

*The Tennessee Fire Service and Codes Enforcement Academy (TFACA) is an Equal Opportunity Institution. It does not discriminate on the basis of age, sex, race, color, religious belief, national origin, or disability in its admission and student-related policies and procedures. TFACA makes every effort to assure equitable representation of minorities and women in its student body. Qualified minority and female candidates are encouraged to apply.*

## REGISTRATION PROCESS

Students are required to submit a registration form for on-campus courses at least 14 days prior to the start of the course. Tuition fees and lodging/meal charges MUST accompany all applications unless prior arrangements have been made. Incomplete forms will be returned.

## GRIEVANCES

Grievances should be made in writing to TFACA, Executive Director.

## CANCELLATIONS

Cancellations of individual registrations must be received no later than 14 days prior to the course start date. Cancellations must be made in written form to the Registrar. Cancellations received after the 14 day period will result in the loss of 10% of the course fee or a minimum of \$15.00.

## STUDENT SUBSTITUTIONS

Student substitutions should be submitted to the Registrar by the responsible party, in written form, by mail or fax, at least 24 hours prior to the scheduled start of the course. Substitutions will not be valid until confirmed by Registrar. A completed registration form for the new student must also be submitted.

## ILLNESS OR INJURY

Ill or injured students MUST report immediately to the instructor. Students are strongly urged to be covered by the agency they represent with Worker's Compensation Insurance or private insurance coverage. TFACA does not provide any insurance coverage for students and assumes no liability or responsibility for illness or injury experienced while attending or participating in TFACA programs.

## CLASS SCHEDULES

After registration, students will be advised of the schedule and class meeting times. Special night training sessions are required for some courses.

## CONDUCT AND DISCIPLINE

Immoral/disorderly conduct, profane, obscene, vulgar or indecent language will not be tolerated. Minor infractions will be corrected by TFACA staff. Conduct detrimental to TFACA will not be tolerated and could result in dismissal. As safety in all academy operations is of utmost importance, conduct interfering with safety will not be tolerated.

## GENERAL CARE OF ACADEMY FACILITY

Students are required to place all refuse in the proper containers and to avoid any abuse to the TFACA facilities. Report facility problems to the Maintenance Department.

## PERSONAL ITEMS

TFACA does not assume any responsibility for loss, theft, or damage of personal items. For items lost or found, contact the Hospitality Manager.

## EMERGENCY CONTACT

In the event of an emergency, students may be contacted at 1.800.747.8868, during regular business hours. After hours, please contact TFACA security at 931.294.4200.

## SPECIAL ACCOMMODATIONS

Students who require special accommodations under the American's with Disabilities Act (ADA) must provide TFACA written documentation listing the requested accommodations, prior to arrival.



Administration Building

Designed for TFACA Academy management and support team



# TFACA

## TARDINESS

Students are required to be punctual for all classes, training and activities.

## ABSENCES

Unless specific permission is received from TFACA, students are not permitted to miss any portion of a course. Failure to comply could result in an unexcused absence, incomplete grade, and/or possible dismissal. Emergency leave may be approved for just cause.

## CHEATING

Any student found cheating will be subject to dismissal.

## RELEASING TRANSCRIPTS

Student transcripts will be released upon written request authorized by the student. Records will not be sent by fax. An administrative fee of \$2.00 will be charged.

## COURSE FEES: IN-STATE STUDENTS

Program course fees are listed along with the individual course description information.

## COURSE FEES: OUT-OF-STATE, COMMERCIAL AND INDUSTRIAL STUDENTS

Please contact TFACA for course fees, lodging and meal charge information.

## DORMITORY LODGING

Dormitory accommodations are available on a first come/ first serve basis. Rooms are single occupancy with semi-private restroom facilities.

Lodging fees are \$40.00 per night, unless otherwise noted. This fee includes breakfast, lunch and dinner.

All students staying in the dormitory must check in at the Registration Building between 4:00 p.m. - 9:00 p.m. on the day before courses start or no later than 30 minutes prior to course start time on the first day of class. Check-out is by 8:00 a.m. the last day of the course. Written requests for ADA rooms must be submitted prior to arrival.

## ROOM KEYS

Room keys must be deposited in the key drop located at the registration desk prior to attending final day of course. Failure to return the key before class or using the room after the designated check-out time could result in additional charges.

## VISITORS

Dormitory visitors will be allowed between the hours of 5:00 p.m. - 9:00 p.m. only. All visitors MUST check in at the registration desk. TFACA gates close promptly at 11:00 p.m. each night. All personnel will be required to show proper identification for re-entry.

## MEAL CHARGE INFORMATION

For students staying on campus: breakfast, lunch and dinner meal charges are included in the Dormitory Fee. All students attending more than a half day course are required to purchase a lunch meal ticket for each day of class. Requests for exemptions are made through the Registrar on a case by case basis.

A meal ticket can be purchased for students staying on campus or for TFACA visitors.

All meal tickets should be purchased in advance, if possible, by contacting the Registrar at (931) 294-4111 or 1(800) 747-8868. Meal tickets can also be purchased at the Registration Building.

Contact TFACA Registrar for meal ticket costs.



Pricing is subject to change subsequent to catalog publishing. Please call TFACA for further information.

# Contact Information

Phone: 931.294.4111 • Toll Free: 1.800.747.8868 • Fax: 931.294.4121  
E-mail : [tfaca.info@state.tn.us](mailto:tfaca.info@state.tn.us) • Web Address: [www.state.tn.us/commerce/academy](http://www.state.tn.us/commerce/academy)

Academy General Information	<a href="mailto:tfaca.info@state.tn.us">tfaca.info@state.tn.us</a>
Executive Director, Stuart Crine	<a href="mailto:stuart.crine@state.tn.us">stuart.crine@state.tn.us</a>
Admin. Assistant to Executive Director, Rise Sudberry	<a href="mailto:rise.sudberry@state.tn.us">rise.sudberry@state.tn.us</a>
Fire Service Program Director, David E. Hedrick	<a href="mailto:david.hedrick@state.tn.us">david.hedrick@state.tn.us</a>
Codes Enforcement Program Director, Denny J. Boss	<a href="mailto:denny.boss@state.tn.us">denny.boss@state.tn.us</a>
Marketing Coordinator, Karen D. Alexander	<a href="mailto:karen.d.alexander@state.tn.us">karen.d.alexander@state.tn.us</a>
Facility Support Manager, Fred Sims	<a href="mailto:fred.sims@state.tn.us">fred.sims@state.tn.us</a>
Business Manager, William Clay	<a href="mailto:william.clay@state.tn.us">william.clay@state.tn.us</a>
Facility Support Supervisor, David O. Trott	<a href="mailto:david.trott@state.tn.us">david.trott@state.tn.us</a>
Hospitality Manager, Kerry Atwell	<a href="mailto:kerr.atwell@state.tn.us">kerr.atwell@state.tn.us</a>
Computer Support Specialist, Steve Jones	<a href="mailto:steve.jones@state.tn.us">steve.jones@state.tn.us</a>
Registrar, Kay Hale	<a href="mailto:kay.hale@state.tn.us">kay.hale@state.tn.us</a>
Curriculum Support Specialist, Cheryle Hunt	<a href="mailto:cheryle.hunt@state.tn.us">cheryle.hunt@state.tn.us</a>
Regional Fire Supervisor, Jerry Crews	<a href="mailto:jerry.crews@state.tn.us">jerry.crews@state.tn.us</a>
Fire Instructor II, Charlie Lewis	<a href="mailto:charlie.lewis@state.tn.us">charlie.lewis@state.tn.us</a>
Regional II Coordinator, Barron Kennedy	<a href="mailto:barron.kennedy@state.tn.us">barron.kennedy@state.tn.us</a>
Regional III Coordinator, Andy Mitchell	<a href="mailto:andy.mitchell@state.tn.us">andy.mitchell@state.tn.us</a>
Resident Fire Supervisor, Ron Kimberlin	<a href="mailto:ron.kimberlin@state.tn.us">ron.kimberlin@state.tn.us</a>
Administrative Services Assistant II, Patricia Holt	<a href="mailto:patricia.holt@state.tn.us">patricia.holt@state.tn.us</a>
Account Tech II, Melody Lightcap	<a href="mailto:melody.lightcap@state.tn.us">melody.lightcap@state.tn.us</a>
Secretary, Jacquie Fortenberry	<a href="mailto:jacquie.fortenberry@state.tn.us">jacquie.fortenberry@state.tn.us</a>
Receptionist, Betsy Bowman	<a href="mailto:betsy.bowman@state.tn.us">betsy.bowman@state.tn.us</a>



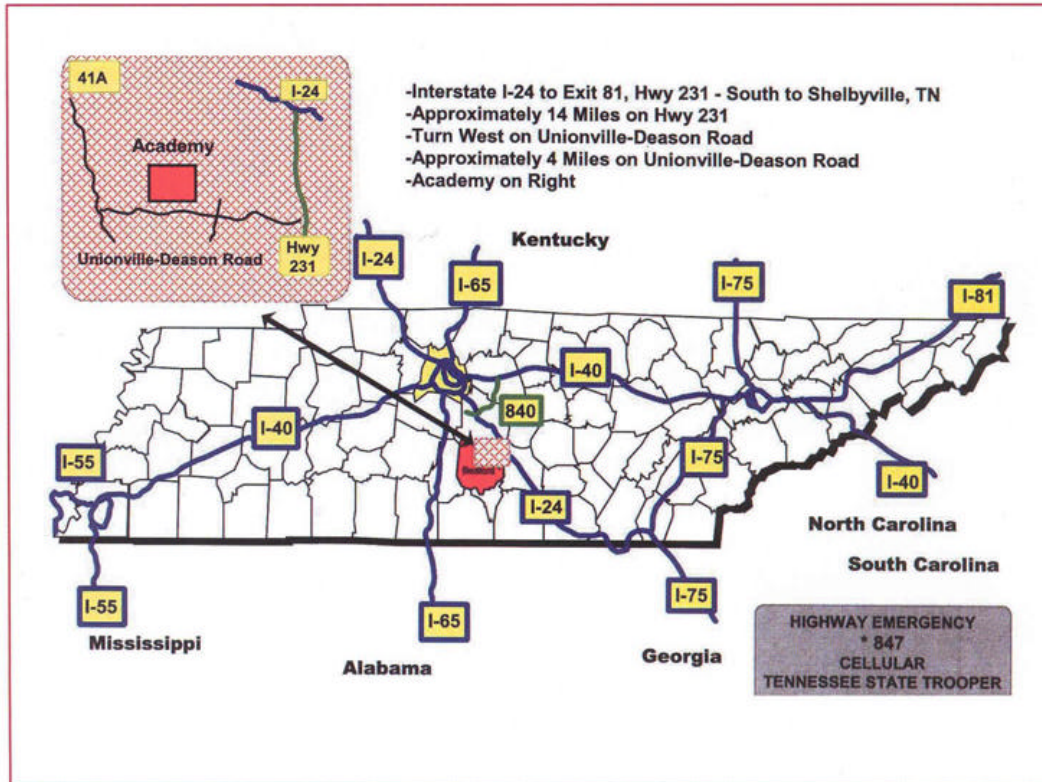


## Closing Remarks

The Department of Commerce and Insurance, State Fire Marshal's Office and TFACA Staff would like to express our deepest appreciation and gratitude to the many officials, organizations, departments, friends and family that have shown support and offered their unselfish assistance during the Academy's development. You have volunteered your suggestions, comments, thoughts and many long hours into helping the academy realize its commitment to the state's many fire, codes and emergency response personnel. These men and women dedicate their lives to providing a safer living and working environment for all of us.

We can now help these heroes by giving them the best training and educational facility that Tennessee can offer. Thanks to your dedication and hard work, the citizens of Tennessee will be provided better protection and see a reduction in injuries, deaths and property loss due to the destruction of fire and natural disasters. We greatly appreciate your continued support.

# Directions to TFACA



From Knoxville

Take I-40 West to TN-840 toward Chattanooga (Exit 235). Next, take I-24 East to US-231 South toward Shelbyville (Exit 81-A). Go approximately 14.5 miles and turn right onto Unionville-Deason Rd. Entrance to TFACA is 4.75 miles down on the right.

From Chattanooga

Take I-24 West toward Nashville. Next, take US-231 South toward Shelbyville (Exit 81). Go approximately 14.5 miles and turn right onto Unionville-Deason Rd. Entrance to TFACA is 4.75 miles down on the right.

From Nashville

Take I-40 East to I-24 East toward Chattanooga. Next, take US-231 South toward Shelbyville (Exit 81-A). Go approximately 14.5 miles and turn right onto Unionville-Deason Rd. Entrance to TFACA is 4.75 miles down on the right.

From Memphis

Take I-40 East toward Nashville to I-24 East toward Chattanooga. Next, take US-231 South toward Shelbyville (Exit 81-A). Go approximately 14.5 miles and turn right onto Unionville-Deason Rd. Entrance to TFACA is 4.75 miles down on the right.